

10/609,012 filed 06/27/2003
Theo T. Nikiforov
Reply to Office Action of January 10, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A kit, comprising:
a fluorescently labeled phosphorylatable compound which is capable of being phosphorylated to produce a fluorescently labeled phosphorylated product; and
a liquid reagent comprising a polymer having multivalent metal cations associated therewith, wherein the multivalent metal cations bind the polymer to the phosphorylated product.
2. (original) The kit of claim 1, wherein the multivalent metal cations comprise trivalent metal cations.
3. (original) The kit of claim 1, wherein the multivalent metal cations are selected from a group consisting of Fe^{3+} , Ca^{2+} , Ni^{2+} and Zn^{2+} .
4. (original) The kit of claim 1, wherein the phosphorylatable compound is selected from a group consisting of a serine, threonine or tyrosine substrate.
5. (original) The kit of claim 1, wherein the multivalent metal cations are chelated to the polymer.
6. (original) The kit of claim 1, wherein the polymer is between 5 kD and 1000 kD.
7. (original) The kit of claim 1, further comprising a kinase enzyme.
8. (original) The kit of claim 1, further comprising ATP.
9. (original) The kit of claim 1, further comprising a buffer solution.

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10. (original) The kit of claim 1, wherein the multivalent metal cations comprise Fe³⁺.
11. (original) The kit of claim 1, further comprising a multiwell plate.
12. (currently amended) A kit, comprising:
a fluorescently labeled phosphorylatable compound which is capable of being phosphorylated to produce a fluorescently labeled phosphorylated product; and
a liquid reagent comprising a molecule having multivalent metal cations associated therewith, wherein the metal cations bind the molecule to the phosphorylated product.
13. (original) The kit of claim 12, wherein the multivalent metal cations comprise trivalent metal cations.
14. (original) The kit of claim 12, wherein the multivalent metal cations are selected from a group consisting of Fe³⁺, Ca²⁺, Ni²⁺ and Zn²⁺.
15. (original) The kit of claim 12, wherein the phosphorylatable compound is selected from a group consisting of a serine, threonine or tyrosine substrate.
16. (previously presented) The kit of claim 12, wherein the molecule comprises a polymer.
17. (original) The kit of claim 16, wherein the multivalent metal cations are chelated to the polymer.
18. (previously presented) The kit of claim 17, wherein the polymer is between 5 kD and 1000 kD.
19. (original) The kit of claim 12, further comprising a kinase enzyme.
20. (original) The kit of claim 12, further comprising ATP.

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21. (original) The kit of claim 12, further comprising a buffer solution.
22. (original) The kit of claim 12, further comprising a multiwell plate.